Innovation, Quality, Performance

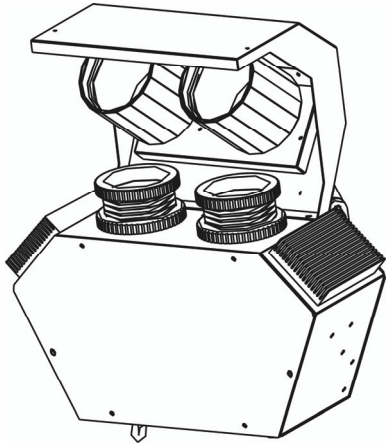
ACME®

DMX512

LINKABLE
STAND ALONE

Marvelous Sound Activation

LED DUET RGBW



LED-246D

User Manual

Professional Entertainment Technology

4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some fixtures don't respond to the easy controller

1. Check the LED for the response of the master/ slave mode signal.
2. Check if the unit is receiving DMX signal and cut it off.

D. No response to the sound

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

E. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

8. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a 'daisy chain' by XLR plug from the output of the unit to the input of the next unit. The cable can not be branched or split to a 'Y' cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, solder joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when power is connected to the unit.
5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-512 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.
   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
   Pin 4/5: Not used.

7. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.

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1. Safety Instruction

WARNING

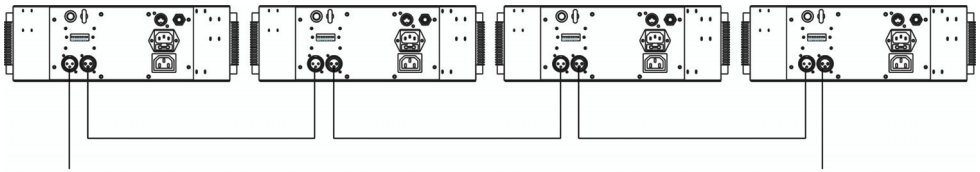
Please read the instruction carefully which including important information about the installation, operation and maintenance.

- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only and use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- Make sure there are not flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit.
- Maximum ambient temperature is TA: 40℃ and don't operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 60℃. Don't touch the housing bare-hand during its operation.
- There are no user serviceable parts inside the fixture. Do not open the housing or attempt any repairs by yourself. In the unlikely event your fixture may require service, please contact the nearest authorized technical assistance center and always use the same type spare parts.
- Don't connect the device to any dimmer pack or power pack.
- Do not look directly at the LED light beam while the fixture is on.
- The housing must be replaced if they are visibly damaged.
- Do not touch any wire during operation as high voltage might be causing electric shock.

Ch1	
Special Function	
250-255	Master/Slave
205-249	Chase 5
156-204	Chase 4
107-155	Chase 3
058-106	Chase2
009-057	Chase1
000-008	Black Out

6. DMX 512 Connection

The DMX 512 is widely used in intelligent lightings and with a maximum of 512 channels.



Termination reduces signal errors and voids signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W)between pin2(DMX-)and pin3(DMX+) of the last fixture.

4.4 Universal DMX Controller

When using a universal DMX controller to control the chain of units, you have to set DMX address by Dip switches from 1 to 9 to make sure all the units will receive its DMX signal. The dip switch 10 is used to choose channel mode. Please refer to the following diagram to know how to address your DMX 512 system in the binary code.

DMX 512 Address Chart:

Dip-switches	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	#10
Value	1	2	4	8	16	32	64	128	256	2-Light show

◦ Examples:

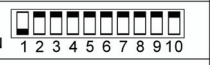
1 Channel mode: (Dip switch 10 off)

Unit 1： dip / on: #1 (=1)

Unit 2： dip / on: #2 (1+1=2)

Unit 3： dip / on: #1,#2 (1+2=3)

Unit 4： dip / on: #3 (=4)

Unit	Dip switches setting
1	
2	
3	
4	

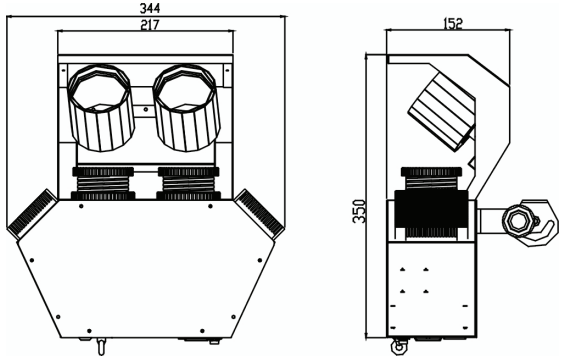
5. DMX 512 Configuration

1 Channel mode:

2. Technical Specification

- Features double 10Watt high powered quad-color LEDs, two barrel reflectors and two column reflectors
- Three operation modes: DMX, Master/Slave mode, Sound Active
- Colorful RGBW spots like fireworks in the sky
- Great built-in programs under Master/Slave triggered by music
- Optional easy controller CA-8 for instant lighting shows
- Strong carrying handle, standing feet and hanging bracket for reliable operation
- Ideal for all applications

- **Voltage:** AC 100-240V~50/60Hz
- **Fuse:** T 6.3A
- **LED:** 2 x 10W LED
- **Power Consumption:** 34.5W
- **Dimension:** 344 x 350 x 152 mm
- **Weight:** 5.0kg



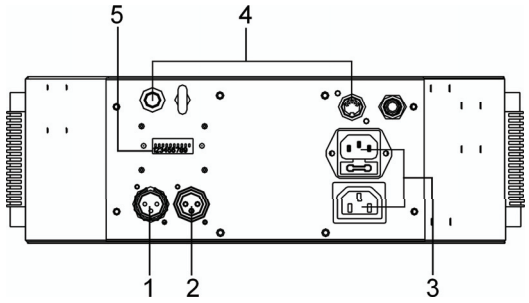
3. Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

4. How To Control The Unit

4.1 Control Panel



① **DMX output:** For DMX512 link, use 3/5-pin XLR plug cable to link the next unit.

② **DMX input:** For DMX512 link, use 3/5-pin XLR plug cable to input DMX signal.

③ **Power**：Connect to input/output mains power.

④ **Only for remote control:** Connecting with CA-8/CA-9/CA-9RTX to control the unit for Stand by, Function and Mode function.

⑤ **Dip switches**: For different function setting.

4.2 Master/Slave Operation

The unit can be linked together in daisy chain as many as you need in master/slave mode to perform the great built-in pre-programmed lighting shows triggered by music.

In Master/Slave mode refer to the DMX settings below:

Master unit: DMX start address MUST be set to 001. (First DIP switch = ON, all others are OFF) In Master mode, Dipswitch 10 "on" means the unit runs in 1MSL mode and "Off" means the unit runs in 1-CH mode.

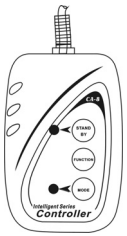
Slave units: DMX start address may have any value but NOT 001 (example: set the first 3 DIP switches to ON)

2-Light Show

Dipswitch 10 "off" means the unit works normally. And "on" means the unit runs 2-Light show. In order to create a great light show, you can set dip switch 10 "on" on any unit that is linking to the master unit to get contrast movement to the master unit, even if you have two units only. Dipswitch 10 on the first (Master) unit is no use for the 2-light show as it is the master unit that operates the light show.

4.3 Easy Controller (by CA-8/CA-9/CA-9RTX)

The easy remote control is used only in master/slave mode. By connecting to the 4-pin jack of the first unit, you will find that the remote controller on the first unit will control all the other units for Stand by, Function and Mode selection



Blackout	Blackout the unit		
Function	**Strobe** 1. Synchronous strobe in white 2. Sound strobe in white 3. Sound strobe in color	**Select color** 1. Red 2. Green 3. Blue 4. White 5. Red + Green 6. Red + Blue 7. Red + White 8. Green + Blue 9. Green + White 10. Blue + White 11. Red + Green + Blue 12. Red + Green + White 13. Red + Blue + White 14. Green + Blue + White 15. Red + Green + Blue + White 16. Color change by sound	**Select Show** **1 – 6**
Mode	Sound (LED OFF)	Manual Color (LED ON)	Show (LED slow blinking)